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threshold discriminator scheme has been measured extensively to determine the conditions for optimum ... frontend circuit combines signal charge **integration**, output tional bias **voltage** is necessary due to the special biasing of the cascode pair. ... **noise** for **X-ray** spectroscopy", IEEE Trans. Nucl. Sci. ...

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integration and detectors which work in the single-photon counting mode. intensity **x-ray** radiation) leads to higher **noise** performance, ... architecture the **threshold voltage** of **discriminators** is common for all channels. ...

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... increase in the time needed to collect data with good signal to **noise**), ... These Diamond Electron Tubes **X-ray** (DELT-X) detectors were used as the basis of the ... of the **voltage** parameters (PMT bias **voltage**, **discriminator threshold** and The **integration** of N, observed at operational bias voltages (insert ...

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